

CLAIMS

I claim:

- 1 1. A method of activating a mobile station for communicating with a
2 telecommunications network, comprising the steps of:
3 (a) in a first registration, providing the mobile station with a permanent
4 mobile station ID;
5 (b) in a second registration, receiving the permanent mobile station ID
6 from the mobile station; and
7 (c) communicating programming data to the mobile station.
- 1 2. The method recited in Claim 1, wherein said first registration comprises
2 the steps of:
3 (a) receiving a temporary activation mobile station ID from a mobile
4 station;
5 (b) verifying the temporary activation mobile station ID ; and
6 (c) communicating a permanent mobile station ID to the mobile station.
- 1 3. The method recited in Claim 2, wherein said second registration comprises
2 the steps of:
3 (d) receiving the permanent mobile station ID from the mobile station;
4 (e) verifying the permanent mobile station ID ; and
5 (f) communicating programming data to the mobile station.

1 4. A method of activating a mobile station for communicating with a
2 telecommunications network, comprising the steps of:

3 (a) receiving a temporary activation mobile station ID from a mobile
4 station;

5 (b) verifying the temporary activation mobile station ID;

6 (c) communicating a permanent mobile station ID to the mobile station;

7 (d) receiving the permanent mobile station ID from the mobile station;

8 (e) verifying the permanent mobile station ID; and

9 (f) communicating programming data to the mobile station.

1 5. The method recited in Claim 4, wherein step (a) further comprises the
2 steps of receiving the temporary activation mobile station ID and an ESN of the
3 mobile station at a mobile switching center, and sending a registration notification
4 to an over-the-air activation function; and step (b) further comprises sending a
5 registration notification containing the permanent mobile station ID from the
6 over-the-air activation function to the mobile switching center.

1 6. The method recited in Claim 5, wherein step (d) further comprises
2 receiving the permanent mobile station ID and ESN from the mobile station at the
3 mobile switching center; and step (e) further comprises the mobile switching
4 center sending a registration notification to a home location register assigned to
5 the permanent mobile station ID.

7. The method recited in Claim 6, wherein step (f) comprises:

the over-the-air activation function sending programming data to the mobile switching center identified by the home location register;

the mobile switching center sending a SPACH notification of R-data to the mobile station;

the mobile switching center receiving a SPACH confirmation from the mobile station;

the mobile switching center sending programming data to the mobile station;

the mobile switching center receiving from the mobile station an acknowledgement of receipt of the programming data; and

the mobile switching center notifying the over-the-air activation center of a successful download of programming data to the mobile station.

8. A method of activating a mobile station for communicating with a telecommunications network, comprising the steps of:

(a) receiving a temporary activation mobile station ID and ESN from a mobile station at a mobile switching center and sending a registration notification to an over-the-air activation function;

(b) verifying the temporary activation mobile station ID and sending a registration notification from the over-the-air activation function containing the permanent mobile station ID to the mobile switching center;

(c) communicating a permanent mobile station ID to the mobile station;

- 10 (d) receiving the permanent mobile station ID and ESN from the mobile
11 station at the mobile switching center;
- 12 (e) verifying the permanent mobile station ID; and sending a registration
13 notification to a home location register assigned to the permanent mobile station
14 ID; and
- 15 (f) the over-the-air activation function sending programming data to the
16 serving mobile switching center identified by the home location register;
- 17 (g) the mobile switching center sending a SPACH notification of R-data to
18 the mobile station;
- 19 (h) the serving mobile switching center receiving a SPACH confirmation
20 from the mobile station; and
- 21 (i) the mobile switching center sending programming data to the mobile
22 station.